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Abstract

This final report of the New Hampshire Research Coordinating Unit for Vocational and Technical Education summarizes activities during the period September 1967 to August 1969. The major activities and accomplishments of the RCU are discussed, as well as problems, significant findings and events, dissemination activities, capital equipment acquisitions, data collection, other activities, staff summary, and future activities planned for next reporting period. (CH)

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FINAL REPORT

Project No. 6-2739

Grant No. OEG 1-6-062739-2137(085)

# THE NEW HAMPSHIRE RESEARCH COORDINATING UNIT

# FOR

# VOCATIONAL AND TECHNICAL EDUCATION

Reporting period of September, 1967 to August, 1969

U. S. DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE

Office of Education
Bureau of Research

UT009769

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
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FINAL REPORT

Project No. 6-2739
Grant No. OEG 1-6-062739-2137(085)

# THE NEW HAMPSHIRE RESEARCH COORDINATING UNIT FOR VOCATIONAL AND TECHNICAL EDUCATION

Dr. Richard L. Barker, RCU Director

Division of Vocational-Technical Education
State Department of Education
Concord, New Hampshire 03301

September 1, 1969

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# INTRODUCTION

This is the final report of the New Hampshire Research Coordinating Unit for vocational and technical education. It covers the Unit's activities throughout its two years of contributions to vocational and technical education in the State.

The Unit was originally funded under provisions of Section 4(c) of the Vocational Education Act of 1963 to begin in June, 1966, under Grant Number OEG-1-6-062739-2137. It was activated in September, 1967, when Dr. Richard L. Barker was employed as full-time director. Up to that date, the state director of vocational and technical education, Neal D. Andrew, was attmepting to facilitate the Unit's objectives as acting director.

The director, and his secretary, Dorothy J. LaBonte, have been housed within the headquarters of the Division of Vocational and Technical Education in the capital city of Concord, New Hampshire. This location gave excellent contact with state consultants in occupational education and the entire State Department of Education, as well as other governmental agencies. The site offers the opportunity to continue well informed of the daily events within the central office and to act in a direct relationship with the director of vocational-technical education.

The primary objective of this report is to indicate the major activities and accomplishments of the New Hampshire Research Coordinating Unit and to denote future activities planned.

## 1. MAJOR ACTIVITIES AND ACCOMPLISHMENTS DURING FIRST YEAR OF OPERATION

The New Hampshire RCU has been actively involved in promoting the philosophy and objectives of the Unit to state and local leaders in vocational and technical education. These efforts are being guided by the objectives as stated within the original proposal. The Unit's objectives were:

1. To provide leadership in the systematic investigation of problems relating to vocational-technical education as it falls within the total framework of education.

2. To encourage the creation of a positive attitude toward educational research by those persons involved in vocational-technical education.

3. To stimulate research in the broad spectrum of vocational-technical education.

4. To provide a core of professional researchers and vocational educators to assist and guide individuals and groups in the initiation and implementation of studies and projects pertinent to occupational education.

5. To assemble, survey, and disseminate data for use in program evaluations and decision making.

6. To cooperate with local, state, regional, and federal groups for the purpose of coordinating research efforts and activities.

7. To ripen research competencies and to vitalize human resources.

The Unit was an active contributor in maintaining, extending, and improving occupational education in New Hampshire. The RCU director assisted in establishing two-way communications with State Department of Education personnel, teacher trainers, Employment Security personnel, local school teachers and administrators, various state agencies, and many others interested in advancing vocational and technical education. He often conferred with these persons both individually and in groups.

## STUDIES COMPLETED DURING REPORTING PERIOD

| Title | Principal Investigator/Director Project Personnel | Support RCU | Support Local | Institution or Agency |
|---|---|---|---|---|
| 1. "Pilot Study to Determine the Need for Curricula Modification in Vocational-Technical Education in New Hampshire" | Dr. William H. Annis<br>Joseph Perrigo | $6,254 | $4,808 | University of New Hampshire |
| 2. "Identification of Attitudes of New Hampshire School Board Members Toward Vocational Education in the State" | Jack D. Lynch | $3,645 | $1,120 | Merrimack Regional High |
| 3. "A Study of the Educational Values in, and Community Resources for a Cooperative Vocational Program in the City of Rochester, New Hampshire" | Ralph K. Lieb | $2,453 | $ 950 | Spaulding High School |
| 4. "Study to Determine the Status of the Vocational Curriculum Presently Offered at Milford Area School" | Robert E. Morrill | $3,650 | $1,100 | Milford Area School |
| 5. "Follow-up of Selected High School Graduates" | RCU Staff | | | Research Coordinating Unit of New Hampshire |
| 6. "Comprehensive Study of Occupational Opportunities in and Surrounding Supervisory Unions 29 and 38" | Supt. Austin E. Frain | $8,556 | $1,125 | School Union #38 |
| 7. "A Study to Determine the Adequacy of the Vocational Education Programs at the White Mountains Regional High School" | Robert L. Day | $6,172 | $ 764 | White Mountains Regional High School |

## STUDIES COMPLETED DURING REPORTING PERIOD (Continued)

| | Title | Principal Investigator/Director Project Personnel | Support RCU | Support Local | Institution or Agency |
|---|---|---|---|---|---|
| 8. | "A Study to Determine the Need for Offering a Vocational Program in Cosmetology at Berlin High School" | Richard E. Pinette | $1,419 | $ 932 | Berlin High School |
| 9. | "A Study of the Skills Necessary for Beginnirg Office Workers for Employment in Business and Industry in New Hampshire | Miss Regis A. Horace | $1,580 | $1,358 | Plymouth State College |
| 10. | "Curriculum Development and Teacher Education" - Project in "Affective" Family Relations Education | Dr. Earl Goodman | $2,000 | $3,700 | University of New Hampshire |
| 11. | "Curriculum Development and Teacher Education Project at Timberlane High School" | Dr. Earl Goodman | $2,000 | $2,248 | University of New Hampshire |
| 11. | "Exploration of Child Day Care Centers" | Jacqueline Straus | $1,000 | | University of New Hampshire |
| 12. | "Home Economics Curriculum Guide Evaluation" | RCU Staff | | | Research Coordinating Unit of New Hampshire |
| 13. | "Medical Assistants Curriculum Study" | RCU Staff | | | Research Coordinating Unit of New Hampshire |

## COOPERATIVE STUDIES

| | Title | Principal Investigator/Director Project Personnel | Support RCU | Support Local | Institution or Agency |
|---|---|---|---|---|---|
| 1. | "An Interstate Investigation of Employment Opportunities and Educational Requirements for Jobs in Outdoor Recreation and Conservation Enterprises" | Dr. William H. Annis | USOE-Voc.Ed. (4c) | | University of New Hampshire |
| 2. | "New England Educational Assessment Project of Vocational Education Study" (Manpower Needs Projecting) | Dr. Donald R. Randall | USOE-ESEA (Title V) | | New Hampshire State Department of Education |
| 3. | "Health Manpower Needs Study" | Mrs. Elizabeth Natti | New Hampshire Department of Health & Welfare | | New Hampshire Health Careers Council |
| 4. | "Characteristics of Industrial Trade and Technical Teacher Preparation in Selected States" | Dr. Gerald R. Fuller | Pending | | USOE Region I & II RCU's |

## STUDIES IN PROGRESS

| Title | Principal Investigator/Director Project Personnel | Support RCU | Support Local | Institution or Agency |
|---|---|---|---|---|
| 1. "Manpower Trainee Follow-up Study" | RCU Staff | | | Research Coordinating Unit |
| 2. "A Pilot Study to Determine the Feasibility of an Audio Tape-Telephone Approach to Supervision of Home Economics Teachers" | Lila C. Murphy | $3,930 | $3,718 | State Department of Education, Division of Vocational-Technical Education |
| 3. "The New Hampshire Technical Institute Dropout One to Three Years Later" | George M. Strout | $ 735 | $6,430 | State Department of Education, Division of Vocational-Technical Education |
| 4. "Pre-Vocational Training for Handicapped and Disadvantaged Students Grades 7-12 in Merrimack Valley School District" | Jack D. Lynch | $1,677 | $1,325 | Supervisory Union #46 Penacook, N. H. |
| 5. "A Follow-up Study of a Search for Clues to the Reasons for Dropouts at Spaulding High School in the City of Rochester, N. H. | Paul V. Hamel | $1,963 | $1,740 | Supervisory Union #54 Rochester, N. H. |
| 6. "A Study to Determine The Direction of Vocational Education at Berlin High School" | Richard E. Pinette | $4,060 | $2,758 | Supervisory Union #3 Berlin, N. H. |
| 7. "An Investigation to Determine The Availability and Adaptability of Multimedia Material in the Plant Sciences for Use in New Hampshire | Dr. William H. Annis | $2,520 | $1,008 | University of New Hampshire |

## II. PROBLEMS

No major problems were experienced by the New Hampshire Research Coordinating Unit during its two years of operation. However, progress continued to be slow due to a one-man operation. Efforts to expand the Unit by including Maine and Vermont were fruitless.

Being a small state, New Hampshire does not lend itself to large numbers of occupational education personnel. Because of this, state consultants and teacher educators find themselves continually involved in routine matters, unable to set aside time for new and innovative projects. The state institutions of higher education are also small with few graduate students to assist in carrying out the thoughts of great minds.

## III. SIGNIFICANT FINDINGS AND EVENTS

The New Hampshire RCU has completed several research and development projects during this reporting period. Significant findings and events are reported therein, or contained in individual project reports. A list of the major studies may be found under Section I of this report.

## IV. DISSEMINATION ACTIVITIES

Dissemination of occupational education information was a major function of the New Hampshire RCU. A great deal of effort was expended in acquiring and disseminating documents. The RCU director offered his services to all interested persons by being the VT ERIC representative in the state.

Considerable time and funds were spent by the RCU director in assisting in the development of vocational and technical education publications in New Hampshire. He has acted as writer, editor, and/or publisher for several documents. Most of these and other vocational-technical publications produced in New Hampshire have been placed into the ERIC system.

The Unit continued throughout its tenure to be an active contributor to maintain, extend, and improve occupational education in New Hampshire. Dissemination activities were a part of this effort. Communications are continually being established and reinforced with educators, governmental agencies, employers and other interested persons. Considerable correspondence takes place in response to requests for occupational education information.

Copies of this report are being sent to:

1. Project Officer, Organization and Administration Studies Branch, Division of Comprehensive and Vocational Education Research, U.S.O.E.

2. Directors of all Research Coordinating Units.

3. Administrative Staff of State Department of Education.

4. State Board of Education.

5. Members of the N. H. RCU Advisory Committee.

6. Acquisition Specialist, ERIC Clearinghouse, The Center for Vocational and Technical Education, The Ohio State University.

7. American Vocational Association.

8. Center for Studies in Vocational and Technical Education, The University of Wisconsin.

9. Other interested individuals and/or institutions upon request.

## V. CAPITAL EQUIPMENT ACQUISITION

The N. H. RCU purchased the following equipment during its first year:

1. 1 Executive desk
2. 1 Executive posture chair
3. 1 Secretarial desk with typewriter unit
4. 2 Secretarial posture chairs
5. 2 Five-drawer letter files
6. 1 IBM Selectric Typewriter
7. 1 3-M Model 400B Reader-Printer
8. 1 F-400 Reader-Printer cabinet
9. 1 Bookcase
10. 1 Portable stand

## VI. DATA COLLECTION

Numerous forms were used by the RCU. Most were simple and designed to secure data of a general nature. Forms used to obtain specific personal data were reviewed and approved on form number SF83 by the U.S.O.E.

## VII. OTHER ACTIVITIES

The New Hampshire RCU Director was continually involved in counseling with persons, reviewing occupational education information and acquiring materials in an attempt to carry out the objectives of the Unit. He is in constant communication with leaders of vocational-technical education within the State as well as other individuals and groups which have information and/or influence upon occupational education. The Director served on many educational committees and attended a great number of meetings relating to his job.

Among the major activities were:

1. Abstracting research studies.

2. Attending State Department of Education and Vocational-Technical Education Division staff meetings.

3. Assisting with committee and organizational activities of the N. H. Vocational Association.

4. Contributing to a staff study of state-wide secondary school vocational educational renewal.

5. Assisting with the development of many research, exemplary, and related proposals for the advancement of Vocational-Technical Education.

6. Coordinator of an EPDA prospectus for a Vocational-Technical project for the disadvantaged.

7. Coordinator of a plan of action to solve the problem of an inadequate supply of qualified teachers for secondary and post-secondary vocational-technical education.

8. Cooperation in the development of a Northeast RCU proposal to study the characteristics of industrial trade and technical teacher preparation.

9. Development and implementation of the New Hampshire State Plan for Vocational Education.

10. Participation in the Northeast Regional RCU Conference in Harrisburg, Pennsylvania.

11. Appointment as Administrator of Exemplary programs/projects in vocational and technical education.

12. Establishing a more effective and efficient system of indexing resource materials.

13. Coordinator for all exemplary programs and projects of vocational and technical education.

14. Development of numerous charts and diagrams.

15. Writing and processing proposals.

16. Development and completion of many minor studies in occupational education.

Major conferences attended by the RCU director during the two years were:

1. October 11-13, 1967, National Training Session on Information Systems, Columbus, Ohio.

2. November 6-7, 1967, Tri-State Vocational Education Administrators Conference, North Conway, New Hampshire.

3. December 1-7, 1967, AVA Convention and pre-session Research Training Program, Cleveland, Ohio.

4. January 22-24, 1968, Vocational Guidance Information Systems, Manchester, N.H. Sponsored by the New England Assessment Project.

5. February 27-28, 1968, Northeastern States Research Coordinating Units Conference, Albany, New York.

6. March 26-28, 1968, National Conference on the Diffusion of Educational Ideas, East Lansing, Michigan.

7. May 22-24, 1968, Regional Seminar in Teaching Agricultural Occupations in Community Colleges and Area Vocational Schools, Durham, N.H.

8. July 7-12, 1968, U.S.O.E. Conference on Manpower Surveys for Vocational-Technical Education Planning, Storrs, Connecticut.

9. July 29 - August 2, 1968, U.S.O.E. Institute on Occupational Analysis as a Basis for Curriculum Development, Fort Collins, Colorado.

10. November 6-8, 1968, North Atlantic Regional Seminar and Research Conference, College Park, Maryland.

11. May 14-15, 1969, Northeast Regional RCU Conference, Harrisburg, Pa.

12. June 5, 1969, New England Educational Research Organization, Boston, Mass.

13. August 4-8, 1969, National Institute on Improving Vocational Education Evaluation, Fayetteville, Arkansas.

VIII. STAFF SUMMARY

| Name | Title or Function | Funds Federal | Funds Local | Period Employed | Percent of Time |
|---|---|---|---|---|---|
| Dr. Richard L. Barker | RCU Director | X | | 9-15-67 to 8-30-69 | 100% |
| George Strout | Research Associate | | X | 11-1-68 to 5-30-69 | 100% |
| Irene Goulet | Research Assistant | X | | 3-24-69 to 8-31-69 | 100% |
| Jane Brickett | Research Intern | X | X | 6-10-68 to 8-30-68 | 100% |
| Rosemarie Foy | Research Intern | X | | 6-28-68 to 8-30-68 | 100% |
| Richard Messer | Research Intern | X | X | 6-10-68 to 8-30-68 | 100% |
| Lynn Richardson | Research Intern | | X | 7-7-69 to 8-31-69 | 100% |
| Dorothy LaBonte | Secretary | X | | 9-27-68 to 8-30-69 | 100% |
| Judy Baker | Stenographer | X | | 10-1-68 to 10-28-68 | 5% |
| Beulah Clements | Stenographer | X | | 7-15-69 to 8-15-69 | 10% |
| Cheryl Korson | Stenographer | X | | 7-15-69 to 8-30-69 | 10% |
| Marilyn Matthews | Stenographer | X | | 12-1-67 to 2-27-68 | 100% |
| Nadine Strout | Stenographer | X | | 3-11-68 to 4-18-68 | 75% |
| Irene Martin | Stenographer | X | | 4-19-68 to 6-27-68 | 100% |

## IX. FUTURE ACTIVITIES PLANNED

The New Hampshire Research Coordinating Unit will continue to serve in its present capacity and location. Administration of exemplary programs and projects will be a major function of the Unit.

## X. CERTIFICATION

Newell J. Paire
Contract Officer

September 1, 1969

Richard L. Barker
Project Director

September 1, 1969